

# Hutatma Rajguru Mahavidyalaya, Rajgurunagar

## Department of Botany

Class work material for T. Y. B. Sc.

<b>Sr. No.</b>	<b>Material</b>	<b>Quantity</b>
1.	Nostoc thallus	5 unit
2.	Chara thallus Vegetative	5 unit
3.	Chara reproductive – globule and nucule	5 unit
4.	Oedogonium	5 unit
5.	Sargassum thallus	5 unit
6.	Sargassum female conceptacle	5 unit
7.	Sargassum male conceptacle	5 unit
8.	Palmaria Thallus with sori/ Chondrus Thallus with sori	5 unit
9.	Mucor	5 unit
10.	Sachharomyces	5 unit
11.	Penicillium	5 unit
12.	<i>Puccinia</i>	5 unit
13.	Puccinia (Rusts) Uredosorus and uredospores	5 unit
14.	Teleutosorus and teleutospores	5 unit
15.	Cercospora	5 unit
16.	Marchantia thallus	5 unit
17.	Marchantia gemma cup	5 unit
18.	Marchantia antheridiophore	5 unit
19.	Marchantia archegoniophore	5 unit
20.	Marchantia Sporophyte	5 unit
21.	Anthoceros Thallus	5 unit
22.	Anthoceros Antherdia	5 unit
23.	Anthoceros Archegona	5 unit
24.	Anthoceros Sporophyte	5 unit
25.	Funaria	5 unit
26.	Funaria Antheridial head and antheridium	5 unit
27.	Funaria Archegonial branch and archegonium	5 unit
28.	Funaria Sporophyte	5 unit

29.	Psilotum Vegetative	5 unit
30.	Psilotum Reproductive	5 unit
31.	Selaginella Vegetative	5 unit
32.	Selaginella Reproductive	5 unit
33.	Selaginella Strobili	5 unit
34.	Equisetum Vegetative	5 unit
35.	Equisetum Reproductive	5 unit
36.	Equisetum Strobili	5 unit
37.	<i>Pinus</i> - Male Cone, Female Cone	5 unit
38.	<i>Pinus</i> -young root, young stem, needle	5 unit
39.	<i>Gnetum</i> - male cone, Female Cone, Root, leaf, young stem	5 unit
40.	Impression	1 specimen
41.	Petrifaction	1 specimen
42.	Compression	1 specimen
43.	Coal ball	1 specimen
44.	Red rot of sugarcane	1 specimen
45.	Black rust of wheat	1 specimen
46.	Citrus canker	1 specimen
47.	Witches Broom diseases	1 specimen
48.	Root nematode of Sugarcane	1 specimen
49.	Chilli Mosaic Virus	1 specimen

S..No.	Name of Glassware	Quantity
1.	Test tube (Borosil) – 25 X 150 mm without rim	50
2.	Nichrome loop	2
3.	Germination paper	1Pack
4.	Cotton (Non absorbant)	2 Bundle
5.	Spreader	1
6.	Muslin Cloth	5 meter
7.	Blotting paper (White)	2 Rim

<b>Sr. No.</b>	<b>Chemicals</b>	<b>Quantity</b>
1.	Sodium Silicate – Na <sub>2</sub> SiO <sub>3</sub>	100 gm
2.	Copper sulphae CuSO <sub>4</sub> . 5H <sub>2</sub> O	100 gm
3.	sulfuric acid	100 gm
4.	Potassium tartrate	100 gm
5.	Sodium hydroxide -NaOH	100 gm
6.	Alpha Naphthol powder	100 gm
7.	3,4-dinitrosalicylic acid	100 gm
8.	Mercuric nitrate	100 gm
9.	Mercurous nitrate	100 gm
10.	Nitric acid	100 gm
11.	Sodium nitroprusside	100 gm
12.	1,2 naphthoquinone 4 sulphate	100 gm
13.	Ethanol	100 gm
14.	Rectified spirit	
15.	potassium sodium tartrate tetrahydrate	100 gm
16.	Crystalline phenol	100 gm
17.	Sodium sulphide	100 gm
18.	Rochelle salt (Potassium sodium (2R,3R)-tartrate )	100 gm
19.	Ninhydrin	50 gr
20.	Stannous Chloride	100 gm
21.	Sodium Citrate dihydrate	100 gm
22.	Citric Acid	100 gm
23.	2 methoxyethanol	100 gm
24.	n-Propanol	100 gm
25.	Leucine(in g)	100 gm
26.	Oxalic acid	100 gm
27.	2,6-Dichloro phenol indophenol	100 gm
28.	Ascorbic acid	100 gm

<b>Sr. No.</b>	<b>charts</b>	<b>Quantity</b>
1	Nympheaceae	1
2	Oleaceae	1
3	Amaranthaceae	1
4	Nyctaginaceae	1
5	Cannaceae	1
6	Life cycle of : <i>Nostoc</i>	1
7	Life cycle of : <i>Chara</i>	1
8	Life cycle of : <i>Sargassum</i>	1
9	Life cycle of : <i>Batrachospermum</i>	1
10	Life Cycle of: <i>Oedogonium</i>	1
11	Life Cycle of: <i>Palmeria/Chondrus</i>	1
12	Life cycle of : <i>Rhizopus</i>	1
13	Life cycle of : <i>Puccinia</i>	1
14	Life Cycle of: <i>Cercospora</i>	1
15	Life Cycle of: <i>Mucor</i>	1
16	Life cycle of : <i>Marchantia</i>	1
17	Life cycle of : <i>Anthoceros</i>	1
18	Life cycle of : <i>Funaria</i>	1
19	Life cycle of : <i>Psilotum</i>	1
20	Life cycle of : <i>Selaginella</i>	1
21	Life cycle of : <i>Marsilea</i>	1
22	polytene chromosomes	1
23	Study of Plant Tissues	1
24	Geological time scale	1
25	Stelar evolution in Pteridophytes	1

# Hutatma Rajguru Mahavidyalaya, Rajgurunagar

## Department Of Botany

T.Y.B.Sc.

### List of Slides

Sr. No	Name Of Slide	Quantity
1.	Sporophyte of <i>Spheroocarpos, Targionia, funaria.</i>	<b>1</b>
2.	Plectostele, Eustele, Dictyostele, Actinostele, Siphonostele, Protostele, Atactostele	<b>1</b>
3.	<i>Equisetum</i> stem -T.S	<b>1</b>
4.	<i>Equisetum</i> strobilus L.S	<b>1</b>
5.	<i>Equisetum</i> Male gametophyte	<b>1</b>
6.	<i>Equisetum</i> Female gametophyte	<b>1</b>
7.	<i>Palmaria</i> carpogonium/ <i>Chondrus.</i> carpogonium	<b>1</b>
8.	<i>Palmaria</i> spermatangia/ <i>Chondrus.</i> spermatangia	<b>1</b>

### List of Instrument

Sr. No	Name Of Slide	Quantity
1	Incubation chamber for tissue culture (Temp.& Humidity control with light	1